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## PATENT ABSTRACTS OF JAPAN

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(22) Application date: **20.11.95**

(30) Priority: <b>05.12.94 JP 06301179</b>	(71) Applicant: <b>MITSUI PETROCHEM IND LTD</b>
(43) Date of application publication: <b>13.08.96</b>	(72) Inventor: <b>YUKIMUNE TAKAHITO HARA YASUHIRO</b>
(84) Designated contracting states:	(74) Representative:

### (54) PRODUCTION OF TAXANE TYPE DITERPENE

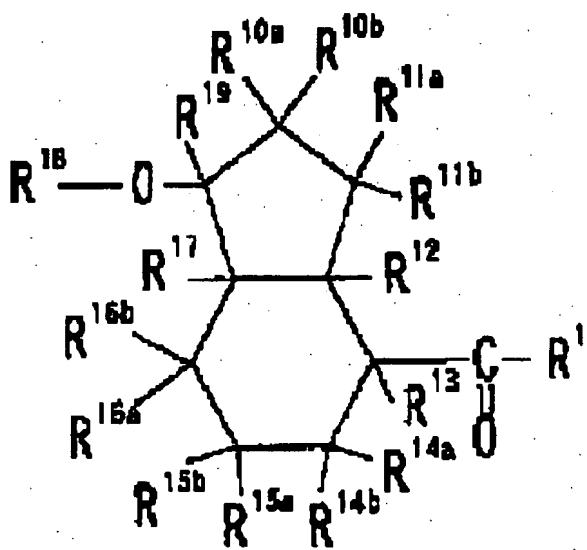
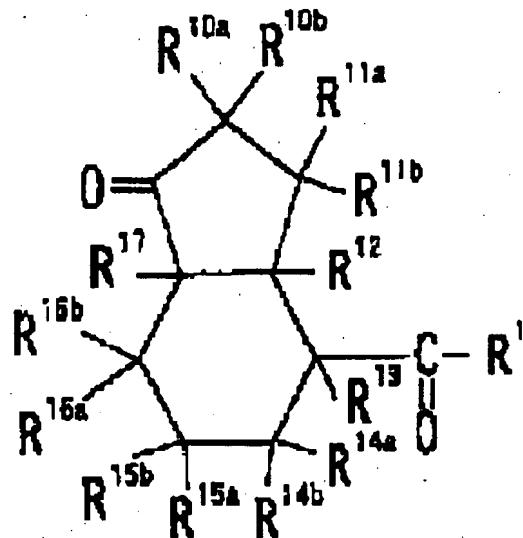
#### (57) Abstract:

**PURPOSE:** To efficiently obtain the subject compound useful as a therapeutic agent, etc., for ovarian, mammary, lung cancers, etc., by culturing a cell or a tissue of a plant capable of producing a taxane type diterpene in a culture medium containing coronatines, a microorganism capable of producing the same, its culture solution, a culture extract, etc.

**CONSTITUTION:** A cultured cell or a tissual cell of a plant (e.g. *Taxus beccata* Linn) capable of producing a taxane type diterpene (e.g. taxol) or both are cultured in a culture medium containing one or more of coronatines represented by formula I [R1 is OH, OR2 (R2 is a 1-6C alkyl, etc.), OM1 (M1 is an alkali metal, an alkaline earth metal or NH4), NR3aR3b (R3a and R3b are each H, a 1-6C acyl, a 1-6C alkyl, etc.), etc.; R10a, R10b, R11a, R11b, R12, R13, R14a, R14b, R15a, R15b, R16a, R16b and R17 are each H, OH, a 1-6C alkyl or a 1-6C alkoxy] or formula II (R18 is H, a 1-6C alkyl or a carbohydrate; R19 is

same species as that of R17), etc., a microorganism capable of producing the same, a culture solution of the microorganisms, a culture extract, etc., thereof to recover a product from the cultured product and/or culture medium to efficiently afford the objective taxane type diterpene.

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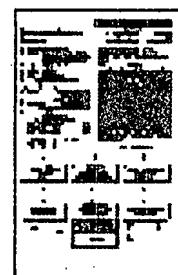
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② Title: **JP8205882A2: PRODUCTION OF TAXANE TYPE DITERPENE**

② Country: JP Japan

② Kind: A

② Inventor: YUKIMUNE TAKAHITO;  
HARA YASUHIRO;



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② Assignee: MITSUI PETROCHEM IND LTD  
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② Published / Filed: Aug. 13, 1996 / Nov. 20, 1995

② Application Number: JP1995000301654

C12P 17/02; A61K 31/12; A61K 31/16; A61K 31/335; A61K 35/78;  
A61K 35/78; C07H 13/00; C07H 15/20; C07H 15/18; C12P 17/02;

② Priority Number: Dec. 5, 1994 JP1994000301179

② Abstract:

PURPOSE: To efficiently obtain the subject compound useful as a therapeutic agent, etc., for ovarian, mammary, lung cancers, etc., by culturing a cell or a tissue of a plant capable of producing a taxane type diterpene in a culture medium containing coronatines, a microorganism capable of producing the same, its culture solution, a culture extract, etc.

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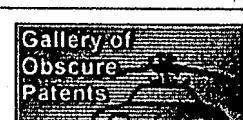
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② Other Abstract Info:

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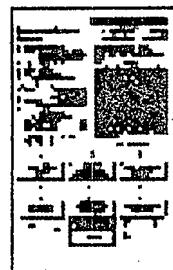
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>Title: **JP8205882A2: PRODUCTION OF TAXANE TYPE DITERPENE**

Country: **JP Japan**

Kind: **A2 Document Laid open to Public inspection**

Inventor: **YUKIMUNE TAKAHITO;  
HARA YASUHIRO;**



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Assignee: **MITSUI PETROCHEM IND LTD**  
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C07H 13/00; C07H 15/20; C07H 15/18; C12P 17/02; C12R 1/91;**

ECLA Code: **None**

Priority Number: **Dec. 5, 1994 JP1994000301179**

Designated Country: **DE FR GB IT NL**

Family:

PDF	Publication	Pub. Date	Filed	Title
	EP0727492A3	Oct. 16, 1996	Nov. 27, 1995	A method of producing a taxane-type diterpene
	EP0727492A2	Aug. 21, 1996	Nov. 27, 1995	A method of producing a taxane-type diterpene
	CA2163614AA	May 26, 1996	Nov. 23, 1995	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE

3 family members shown above - Based on data when this patent issued.

Other Abstract

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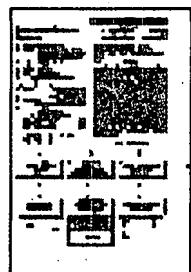


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HARA YASUHIRO;View  
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**Assignee:** MITSUI PETROCHEM IND LTD  
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** Aug. 13, 1996 / Nov. 20, 1995**Application Number:** JP1995000301654**IPC Code:** C12P 17/02; A61K 31/12; A61K 31/16; A61K 31/335; A61K 35/78;  
A61K 35/78; C07H 13/00; C07H 15/20; C07H 15/18; C12P 17/02;**Priority Number:** Dec. 5, 1994 JP1994000301179**Abstract:**

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**Designated Country:** DE FR GB IT NL**Family:**

PDF	Publication	Pub. Date	Filed	Title
	US6465221	Oct. 15, 2002	March 19, 2001	Method of producing a taxane-type diterpene
	JP9065889A2	March 11, 1997	Aug. 28, 1995	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8205882A2	Aug. 13, 1996	Nov. 20, 1995	PRODUCTION OF TAXANE TYPE DITERPENE
	JP8163991A2	June 25, 1996	Dec. 15, 1994	PRODUCTION OF TAXANE-TYPE

			DITERPENE
	<u>JP8140690A2</u>	June 4, 1996	Nov. 25, 1994 PRODUCTION OF TAXANE-TYPE DITERPENE
23	<u>EP0727492B1</u>	Jan. 31, 2001	Nov. 27, 1995 A method of producing a taxane-type diterpene
23	<u>EP0727492A3</u>	Oct. 16, 1996	Nov. 27, 1995 A method of producing a taxane-type diterpene
23	<u>EP0727492A2</u>	Aug. 21, 1996	Nov. 27, 1995 A method of producing a taxane-type diterpene
	<u>DE69520034T2</u>	July 19, 2001	VERFAHREN ZUR HERSTELLUNG EINES DITERPENS VOM TAXANTYP
	<u>DE69520034C0</u>	March 8, 2001	methode zur herstellung eines diterpens vom typ taxan
	<u>CN1132792A</u>	Oct. 9, 1996	METHOD OF PRODUCING TAXANE-TYPE DITERPENE
	<u>CN1068381B</u>	July 11, 2001	METHOD OF PRODUCING TAXANE-TYPE DITERPENE
	<u>CA2163614AA</u>	May 26, 1996	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE
13 family members shown above			

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